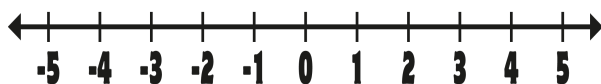


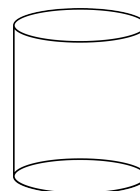
## Algebra and Geometry Review 2

1. Graph the solution to the inequality on the number line.

$$2x + 5 < 9$$



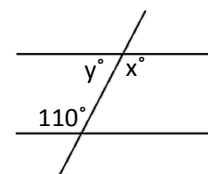
2. Find the volume of a cylinder with a height of 8 and a radius of 3. Leave your answer in terms of  $\pi$ .



3. Add the fractions.

$$\frac{2}{x} + \frac{5}{x+2}$$

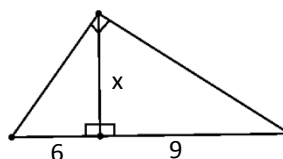
4. If the lines that look parallel are parallel, find the values of  $x$  and  $y$ .



5. Solve the equation.

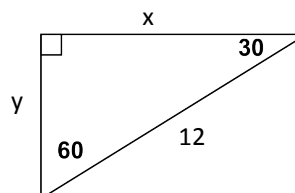
$$\frac{3}{5+x} = \frac{6}{x-2}$$

6. Find  $x$ . Simplify the radical answer.



7. You have a total of 21 coins that are nickels and quarters. The coins have a value of \$2.25. How many quarters do you have?

8. Find  $x$  and  $y$ . Do not write your answer as a decimal.



9. Find  $f(3)$ .

$$f(x) = x^2 - 3x + 5$$

10. Can the triangles be proved congruent? If so, by what method?

